TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY

CONTENTS

Vol. 339, No. 1	Whole No. 700	September 1	993
Holomorphic extension	and decomposition from a total	lly real manifold	
By Zaifei Ye			1
Irredundant sets in Bool	ean algebras		
By STEVO TODORC	EVIC		35
Δ-sets			
By R. W. KNIGHT			45
Classification of the To	r-algebras of codimension four	r almost complete	
	STIN		61
•	cycles and a conjecture of Beili		-
			87
	to self-maps of the circle		
	UBERTA and GEORG PESCHKE		117
•	and automorphisms of the shift		
•			141
	nes and their canonical modules		
	SERAMITA, MARTIN KREUZER a		
			163
3-manifolds which admi			
	۱G		191
	nd the first eigenvalue of Laplac		
	UJI		205
	stimation du noyau de la chaleu		
			221
ω-chaos and topological			
			243
2-weights for unitary gre	oups		
			251
Approximation of appro	eximate fibrations by bundle ma	aps	
Ву Ү. Н. Ім			279
Reflecting Brownian mo	otion in a cusp		
By R. DANTE DEB	LASSIE and ELLEN H. TOBY		297
Some complete Σ_2^1 sets i	in harmonic analysis		
By Howard Beck	ER, SYLVAIN KAHANE and ALA	IN LOUVEAU	323
The Koebe semigroup a	nd a class of averaging operator	rs on $H^p(D)$	
By Aristomenis C	G. Siskakis		337

Probing L-S category with	th maps	
By BARRY JESSUP.		351
The limiting behavior of	the Kobayashi-Royden pseudom	etric
By SHULIM KALIMA	AN	361
	aving small analytic deviation	
By SAM HUCKABA	and CRAIG HUNEKE	373
The constrained least gra	adient problem in R^n	
By Peter Sternbe	RG, GRAHAM WILLIAMS and WIL	LIAM P. ZIEMER 403
Calcul du spectre d'une	nilvariété de rang deux et applica	tions
By HUBERT PESCE		433
TRANSACTIONS OF	THE AMERICAN MATHEM	ATICAL SOCIETY
	CONTENTS	
Vol. 339, No. 2	Whole No. 701	October 1993
Kac-Moody Lie algebras	, spectral sequences, and the Wit	t formula
Uniqueness of positive i	radial solutions of $\Delta u + f(u) = 0$	in \mathbb{R}^n , II
By Kevin McLeon		495
Continuous dependence	of nonmonotonic discontinuous of	lifferential equa-
tions		
By Daniel C. Bile	S	507
Determinants of Laplaci	ans on the space of conical metri	cs on the sphere
By Hala Khuri K	ING	525
An isoperimetric inequa	lity for Artin groups of finite type	е
By Kay Tatsuoka		537
The cohomology algebra	of a commutative group scheme	
By Robert Fossus	and William Haboush	553
The Ehrenfeucht-Fraïssé	e-game of length ω_1	
By Alan Mekler,	SAHARON SHELAH and JOUKO V.	äänänen 567
Certain hypergeometric	series related to the root system i	BC
By R. J. BEERENDS	and E. M. OPDAM	581
On the evaluation map		
By ANICETO MURI	LLO	611
Finitely decidable congr	uence modular varieties	
By Joohee Jeong		623
On property I for knots	in S ³	
By XINGRU ZHANG	,	643

Homogeneity for open partitions of pairs of reals	
By QI FENG	659
Hypersurfaces with constant mean curvature in the complex hyperbolic space	
By Suzana Fornari, Katia Frensel and Jaime Ripoll	685
Geometric curvature bounds in Riemannian manifolds with boundary	
By Stephanie B. Alexander, I. David Berg and Richard L.	
Візнор	703
Noncommutative Köthe duality	
By Peter G. Dodds, Theresa KY. Dodds and Ben de Pagter	717
Gauss map of minimal surfaces with ramification	
By Min Ru	751
Bass numbers of local cohomology modules	
By Craig L. Huneke and Rodney Y. Sharp	765
Brown-Peterson and ordinary cohomology theories of classifying spaces	
for compact Lie groups	
By Akira Kono and Nobuaki Yagita	781
Zeros of the successive derivatives of Hadamard gap series	
By Robert M. Gethner	799
The number of irreducible factors of a polynomial. I	
By Christopher G. Pinner and Jeffrey D. Vaaler	809
Uniform algebras generated by holomorphic and pluriharmonic functions	
By Alexander J. Izzo	835
On the Toda and Kac-van Moerbeke systems	
By F. Gesztesy, H. Holden, B. Simon and Z. Zhao	849
When Cantor sets intersect thickly	
By Brian R. Hunt, Ittal Kan and James A. Yorke	869
The trace of the heat kernel in Lipschitz domains	
By Russell M. Brown	889
Inequalities for mixed projection bodies	
By Erwin Lutwak	901